

Irrigation Water Conveyance/ Aluminum Tubing Pipe

PRACTICE INTRODUCTION

USDA, Natural Resources Conservation Service - practice code 430AA



DEFINITION

Irrigation Water Conveyance is a pipeline and appurtenances installed as an integral part of an irrigation system.

PRACTICE INFORMATION

Aluminum tubing underground pipelines are acceptable for irrigation water conveyance. However, the pipe must be coated with plastic tape on the exterior surfaces. The interior surface will be subject to excessive pitting if high levels of copper are present in the water. In addition, if other types of metal are joined to the aluminum pipe, the metal must be separated with rubber or plastic insulators to reduce galvanic corrosion.

These pipelines may have vents open to the atmosphere, or sealed pressure-relief valves and/or air-and-vacuum-relief valves to properly vent the system.

The purpose of the practice is to reduce erosion, conserve water, and protect water quality. Underground pipelines serve as an integral part of the irrigation water distribution system, and significantly improve the overall efficiency of the system.

This practice requires proper design and installation to function properly.

Additional information including design criteria and specifications are in the local NRCS Field Office Technical Guide.